



ANALOGUE RADIO MODULE FOR MESA®26 ARM26C

HIGHLIGHTS AND TECHNICAL INFORMATION

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The **ARM26C** is the analogue radio component of the **MESA®26** train radio system in protection class IP20. The device enables operational communication in the following analogue radio systems: 70 cm band according to UIC 751-3 und 2-m-band according to customer-specific requirements.

The **ARM26C** consists of two functional units: RMA26C-x: analogue radio module for the respective frequency ranges in the 2 m band and/or 70 cm band, PLFE26-1-36: generation of the internal operating voltage. The device is available in the following versions: ARMC26-2: 2 m band, ARM26C-7, ARM26C-7B, ARM26C-7ES: 70 cm band, ARM26C-72, ARM26C-7B2: 2 m and 70 cm band.

B - band switching

7ES - Modified duplex receiver band
(normal in the range around 468 MHz, here around 448 MHz)

HIGHLIGHTS

- ▶ universal system architecture
- ▶ uniform and standardised interfaces and sub-assemblies
- ▶ 19" plug-in printed circuit board
- ▶ cost optimised spares inventory
- ▶ fast and efficient repair
- ▶ minimized training needed by the maintenance personnel

TECHNICAL DATA

DIMENSIONS & WEIGHT

CONSTRUCTION	rack according to IEC 60297-3
HEIGHT	3 HE
WIDTH	84 TE
DEPTH	190.5 mm
WEIGHT	max. 6 kg

POWER SUPPLY

INPUT VOLTAGE	24 V to 110 V (Connection to the on-board power supply)
TOLERANCES	according to DIN EN 50155
INTERRUPTION	according to DIN EN 50155, class S2 (interruption up to 10 ms)
MAXIMAL POWER CONSUMPTION	100 W (calculated)
TYPICAL POWER CONSUMPTION	12 W / 60 W (in idle mode / with established call)

ENVIRONMENTAL CONDITIONS

PROTECTION CLASS	IP20 according to DIN EN 60529
VIBRATION AND SHOCKS	according to DIN EN 50155
EMC	according to DIN EN 50121-3-2 and DIN EN 50155

CLIMATIC CONDITIONS

OPERATING TEMPERATURE RANGE	OT3: -25 °C to +70 °C according to EN 50155
EXTENDED TEMPERATURE RANGE	ST1: OT3 +15 °C according to EN 50155 (for max. 10 min when switching on)
STORAGE TEMPERATURE RANGE	-40 °C to +70 °C (in original package)
MAXIMAL GRADIENT	± 1 °C/min of ambient temperature
MAXIMAL HUMIDITY	75 % in annual average
RELATIVE HUMIDITY	95 % on max. 30 days per year
ALTITUDE AND PRESSURE FLUCTUATION	-100 m to 1800 m above sea level

RF DATA

2-M-BAND

70-CM-BAND

MODULATION TYPE	FM (F3E) or PM (P3E) (channel dependent configurable)	FM (F3E) or PM (P3E)*
CHANNEL SPACING	12,5 kHz or 25 kHz configurable	12,5 kHz or 25 kHz*
RX / TX TIME RELATION	3:1, maximum continual transmission time: 1 to 7 min (depending on the transmission power level)	3:1, maximum continual transmission time 5 min.

TRANSMITTER

FREQUENCY RANGE	146,00 MHz to 174,00 MHz	Upper band (optional)* 467.20 MHz to 468.65 MHz, Lower band* 457,20 MHz to 458,65 MHz
RF OUTPUT POWER	1 / 2 / 5 / 10 / 25 W (channel dependent configurable)	0,5 / 2 / 6 / 8 / 10 W*
RF CHANNEL SETTING	by RS422	

RECEIVER

FREQUENCY RANGE	146,00 MHz to 174,00 MHz	Duplex- / Scan receiver:* 467.20 MHz to 468.65 MHz, 457.20 MHz to 458.65 MHz, 447.20 MHz to 448.65 MHz (depending on hardware variant) Simplex receiver:* 467.20 MHz to 468.65 MHz, 457.20 MHz to 458.65 MHz (Lower band optional)
SENSITIVITY	-107 dBm (according to EN 300086-1 version 2.1.2)	

* depending on the operating mode



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